

AMENDMENT

Please amend the above-identified application as follows:

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

1. (Currently Amended) A method for rendering a graphical user interface (GUI), comprising:

providing for a representation of the GUI as a set of controls wherein the controls are organized in a logical hierarchy;

traversing the representation, wherein the traversing comprises:

associating a theme with a first control in the set of controls, the first control being a portal, a page or a portlet;

rendering the first control according to the theme;

rendering any descendents of the first control according to the theme unless the theme is overridden;

wherein ~~any descendents~~ a descendent of the first control can override the theme with a second theme such that any descendent of the descendent of the first control uses the second theme unless the second theme is overridden; and

wherein one of the set of controls can communicate with another of the set of controls, ~~wherein the controls include a portal level control, page level control and a portlet level control.~~

2. (Original) The method of claim 1 wherein:

one of the set of controls can respond to an event raised by another of the set of controls.

3. (Original) The method of claim 1 wherein:

a control can have an interchangeable persistence mechanism.

4. (Original) The method of claim 1 wherein:

a control can have an interchangeable rendering mechanism.

5. (Original) The method of claim 1, further comprising:

accepting a request.

6. (Original) The method of claim 5 wherein:
the request in a hypertext transfer protocol (HTTP) request.
7. (Original) The method of claim 5 wherein:
the request originates from a Web browser.
8. (Original) The method of claim 1, further comprising:
generating a response.
9. (Original) The method of claim 1 wherein:
an control can represent one of: button, text field, menu, table, window, window control, title bar, pop-up window, check-box button, radio button, window frame, desktop, shell, head, body, header, footer, book, page, layout, placeholder, portlet and toggle button.
10. (Original) The method of claim 1 wherein:
associating the theme with the first control can occur when the first control is rendered.
11. (Original) The method of claim 1 wherein:
the first control inherits the theme from a parent control.
12. (Original) The method of claim 1 wherein:
the theme specifies the appearance and/or functioning of an control in the GUI.
13. (Original) The method of claim 1 wherein:
rendering the first control according to the theme can be accomplished in parallel with rendering of other controls.
14. (Original) The method of claim 1 wherein:
the theme can be specified in whole or in part by a properties file.
15. (Original) The method of claim 14 wherein:

the properties file can include at least one of: 1) cascading style sheet; 2) Java Server Page; 3) Extensible Markup Language; 4) text; 5) Hypertext Markup Language; 6) Extensible Hypertext Markup Language; 7) JavaScript; and 8) Flash MX.

16. (Original) The method of claim 14 wherein:
the properties file can specify at least one image.
17. (Original) The method of claim 1 wherein:
the GUI is part of a portal on the World Wide Web.
18. (Currently Amended) A method for rendering a graphical user interface (GUI), comprising:
accepting a request;
mapping the request to a set of controls that represent the GUI, and wherein the controls are organized in a logical hierarchy;
traversing the representation, wherein the traversing comprises:
associating a theme with a first control in the set of controls, the first control being a portal, a page or a portlet;
rendering the first control according to the theme unless the theme is overridden;
rendering any descendants of the first control according to the theme; and
wherein ~~any descendants~~ a descendent of the first control can override the theme with a second theme such that any descendent of the descendent of the first control uses the second theme unless the second theme is overridden; ~~wherein the controls include a portal level control, page level control and a portlet level control.~~
19. (Original) The method of claim 18 wherein:
the request in a hypertext transfer protocol (HTTP) request.
20. (Original) The method of claim 18 wherein:
the request originates from a Web browser.
21. (Original) The method of claim 18, further comprising:
generating a response.

22. (Previously Presented) The method of claim 18 wherein:
one of the set of controls can respond to an event raised by another of the set of controls.
23. (Previously Presented) The method of claim 18 wherein:
a control can have an interchangeable persistence mechanism.
24. (Previously Presented) The method of claim 18 wherein:
a control can have an interchangeable rendering mechanism.
25. (Original) The method of claim 18 wherein:
an control can represent one of: button, text field, menu, table, window, window control, title bar, pop-up window, check-box button, radio button, window frame, desktop, shell, head, body, header, footer, book, page, layout, placeholder, portlet and toggle button.
26. (Original) The method of claim 18 wherein:
associating a theme with the first control can occur when the first control is rendered.
27. (Original) The method of claim 18 wherein:
the first control inherits the theme from a parent control.
28. (Original) The method of claim 18 wherein:
the theme specifies the appearance and/or functioning of an control in the GUI.
29. (Original) The method of claim 18 wherein:
rendering the first control according to the theme can be accomplished in parallel with rendering of other controls.
30. (Original) The method of claim 18 wherein:
the theme can be specified in whole or in part by a properties file.
31. (Original) The method of claim 30 wherein:

the properties file can include at least one of: 1) cascading style sheet; 2) Java Server Page; 3) Extensible Markup Language; 4) text; 5) Hypertext Markup Language; 6) Extensible Hypertext Markup Language; 7) JavaScript; and 8) Flash MX.

32. (Original) The method of claim 30 wherein:
the properties file can specify at least one image.

33. (Original) The method of claim 18 wherein:
the GUI is part of a portal on the World Wide Web.

34. (Currently Amended) A method for rendering a graphical user interface (GUI),
comprising:

Providing for a representation of the GUI as a plurality of controls wherein the
controls are organized in a logical hierarchy;

traversing the representation, wherein the traversing comprises:

associating a first theme with a first control in the plurality of controls, the
first control being a portal, a page or a portlet;

rendering the first control according to the first theme;

associating a second theme with a second control in the plurality of controls;

rendering the second control according to the second theme, such that any descendent
of the second control uses the second theme unless overridden; and

wherein the second control is a descendant of the first control, ~~wherein the controls~~
~~include a portal level control, page level control and a portlet level control.~~

35. (Original) The method of claim 34, further comprising:
accepting a request.

36. (Original) The method of claim 35 wherein:
the request in a hypertext transfer protocol (HTTP) request.

37. (Original) The method of claim 35 wherein:
the request originates from a Web browser.

38. (Original) The method of claim 34, further comprising:

generating a response.

39. (Previously Presented) The method of claim 34 wherein:
the first control can respond to an event raised by the second control.
40. (Previously Presented) The method of claim 34 wherein:
an control can have an interchangeable persistence mechanism.
41. (Previously Presented) The method of claim 34 wherein:
an control can have an interchangeable rendering mechanism.
42. (Original) The method of claim 34 wherein:
an control can represent one of: button, text field, menu, table, window, window control, title bar, pop-up window, check-box button, radio button, window frame, desktop, shell, head, body, header, footer, book, page, layout, placeholder, portlet and toggle button.
43. (Original) The method of claim 34 wherein:
the first control inherits the first theme from a parent control.
44. (Original) The method of claim 34 wherein:
the first theme specifies the appearance and/or functioning of the first control in the GUI.
45. (Original) The method of claim 34 wherein:
the rendering the first control can be accomplished in parallel with the rendering of the second control.
46. (Original) The method of claim 34 wherein:
a theme can be specified in whole or in part by a properties file.
47. (Original) The method of claim 46 wherein:
the properties file can include at least one of: 1) cascading style sheet; 2) Java Server Page; 3) Extensible Markup Language; 4) text; 5) Hypertext Markup Language; 6) Extensible Hypertext Markup Language; 7) JavaScript; and 8) Flash MX.

48. (Original) The method of claim 46 wherein:
the properties file can specify at least one image.
49. (Original) The method of claim 34 wherein:
the GUI is part of a portal on the World Wide Web.
50. (Currently Amended) A machine readable medium having instructions stored thereon
that when executed by a processor cause a system to:
provide for a representation of the GUI as a set of controls wherein the controls are
organized in a logical hierarchy;
traverse the representation, wherein the traversing comprises instructions to cause the
system to:
associate theme with a first control in the set of controls, the first control being
a portal, a page or a portlet;
render the first control according to the theme;
render any descendents of the first control according to the theme unless the
theme is overridden;
wherein ~~any descendents~~ a descendent of the first control can override the theme; and
wherein one of the set of controls can communicate with another of the set of controls
with a second theme such that any descendent of the descendent of the first control uses the
second theme unless the second theme is overridden; ~~wherein the controls include a portal
level control, page level control and a portlet level control.~~
51. (Original) The machine readable medium of claim 50 wherein:
one of the set of controls can respond to an event raised by another of the set of
controls.
52. (Original) The machine readable medium of claim 50 wherein:
a control can have an interchangeable persistence mechanism.
53. (Original) The machine readable medium of claim 50 wherein:
a control can have an interchangeable rendering mechanism.

54. (Original) The machine readable medium of claim 50, further comprising instructions that when executed cause the system to:
accept a request.
55. (Original) The machine readable medium of claim 54 wherein:
the request in a hypertext transfer protocol (HTTP) request.
56. (Original) The machine readable medium of claim 54 wherein:
the request originates from a Web browser.
57. (Original) The machine readable medium of claim 50, further comprising instructions that when executed cause the system to:
generate a response.
58. (Original) The machine readable medium of claim 50 wherein:
an control can represent one of: button, text field, menu, table, window, window control, title bar, pop-up window, check-box button, radio button, window frame, desktop, shell, head, body, header, footer, book, page, layout, placeholder, portlet and toggle button.
59. (Original) The machine readable medium of claim 50 wherein:
associating the theme with the first control can occur when the first control is rendered.
60. (Original) The machine readable medium of claim 50 wherein:
the first control inherits the theme from a parent control.
61. (Original) The machine readable medium of claim 50 wherein:
the theme specifies the appearance and/or functioning of an control in the GUI.
62. (Original) The machine readable medium of claim 50 wherein:
rendering the first control according to the theme can be accomplished in parallel with rendering of other controls.
63. (Original) The machine readable medium of claim 50 wherein:

the theme can be specified in whole or in part by a properties file.

64. (Original) The machine readable medium of claim 63 wherein:
the properties file can include at least one of: 1) cascading style sheet; 2) Java Server Page; 3) Extensible Markup Language; 4) text; 5) Hypertext Markup Language; 6) Extensible Hypertext Markup Language; 7) JavaScript; and 8) Flash MX.
65. (Original) The machine readable medium of claim 63 wherein:
the properties file can specify at least one image.
66. (Original) The machine readable medium of claim 50 wherein:
the GUI is part of a portal on the World Wide Web.
67. (Canceled)